Special Issue

The Effect of Food-Derived Compounds on Brown Fat Cell Function

Message from the Guest Editor

The biology of brown and beige adipocytes has advanced rapidly in recent years. These types of adipocytes have the ability to convert lipids accumulated by themselves and by white adipocytes into heat. This function of brown and beige adipocytes to consume accumulated lipids is expected to have various effects, including anti-obesity and anti-diabetic effects. However, their cell biological origin is still unknown. In addition, brown and beige adipocytes interact with various other cell types, including immune system cells such as macrophages, and the thermogenic function is regulated by these interactions. Furthermore, it has been shown that various food-derived components can exert anti-obesity effects by modulating the functions of these adipocytes. Therefore, this Special Issue welcomes a wide range of original and review articles focused on the latest developments in the molecular and cellular biology of various nutrients and compounds that regulate the function of brown and/or beige adipocytes.

Guest Editor

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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